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L2	header same (payload or data) same (control adj1 (path or bus))	198	L2
L1	node near10 network	21958	L1

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DB=USPT; PLUR=YES; OP=OR			
L3	l1 and L2	28	L3
L2	header same (payload or data) same (control adj1 (path or bus))	198	L2
L1	node near10 network	21958	L1

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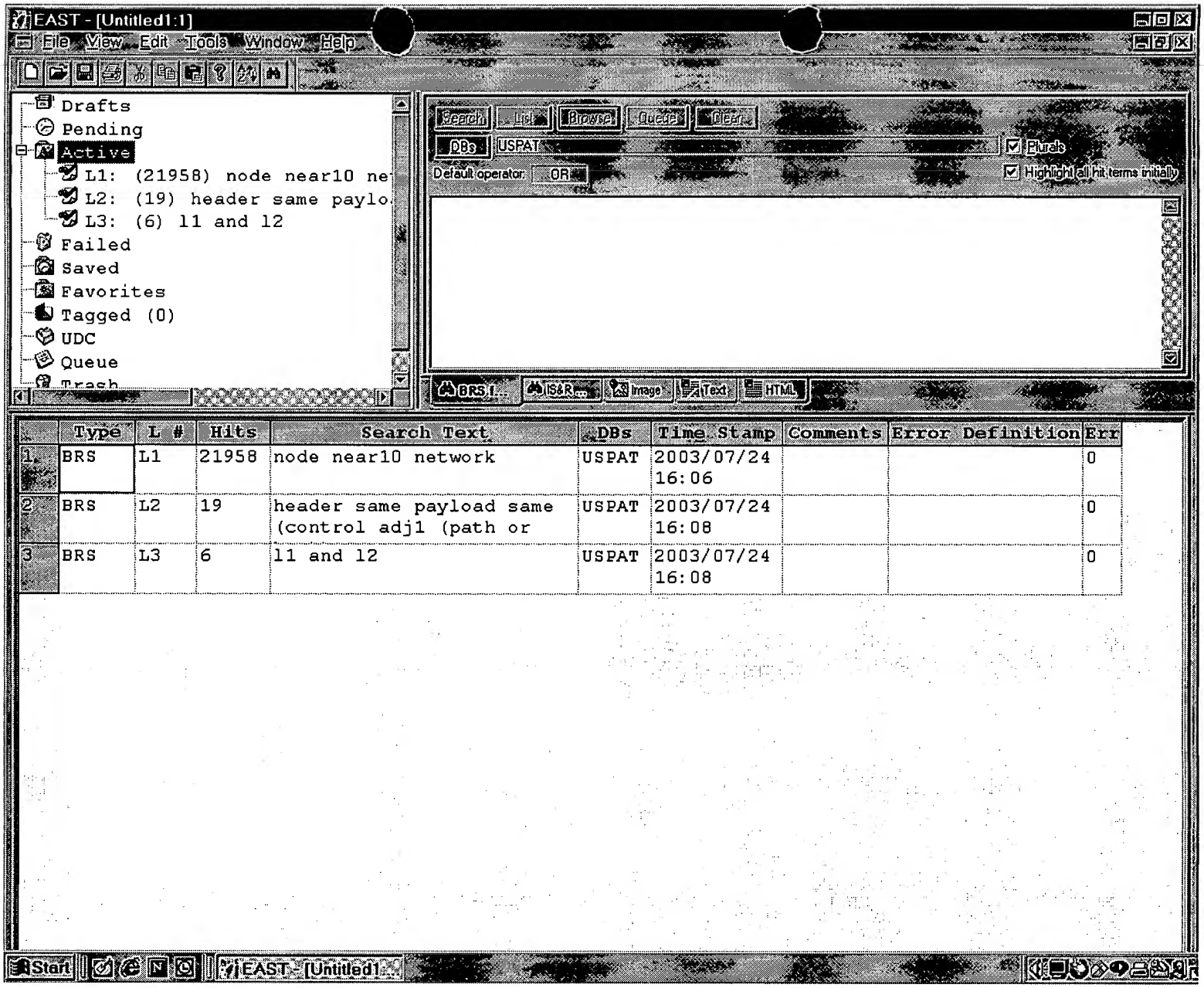

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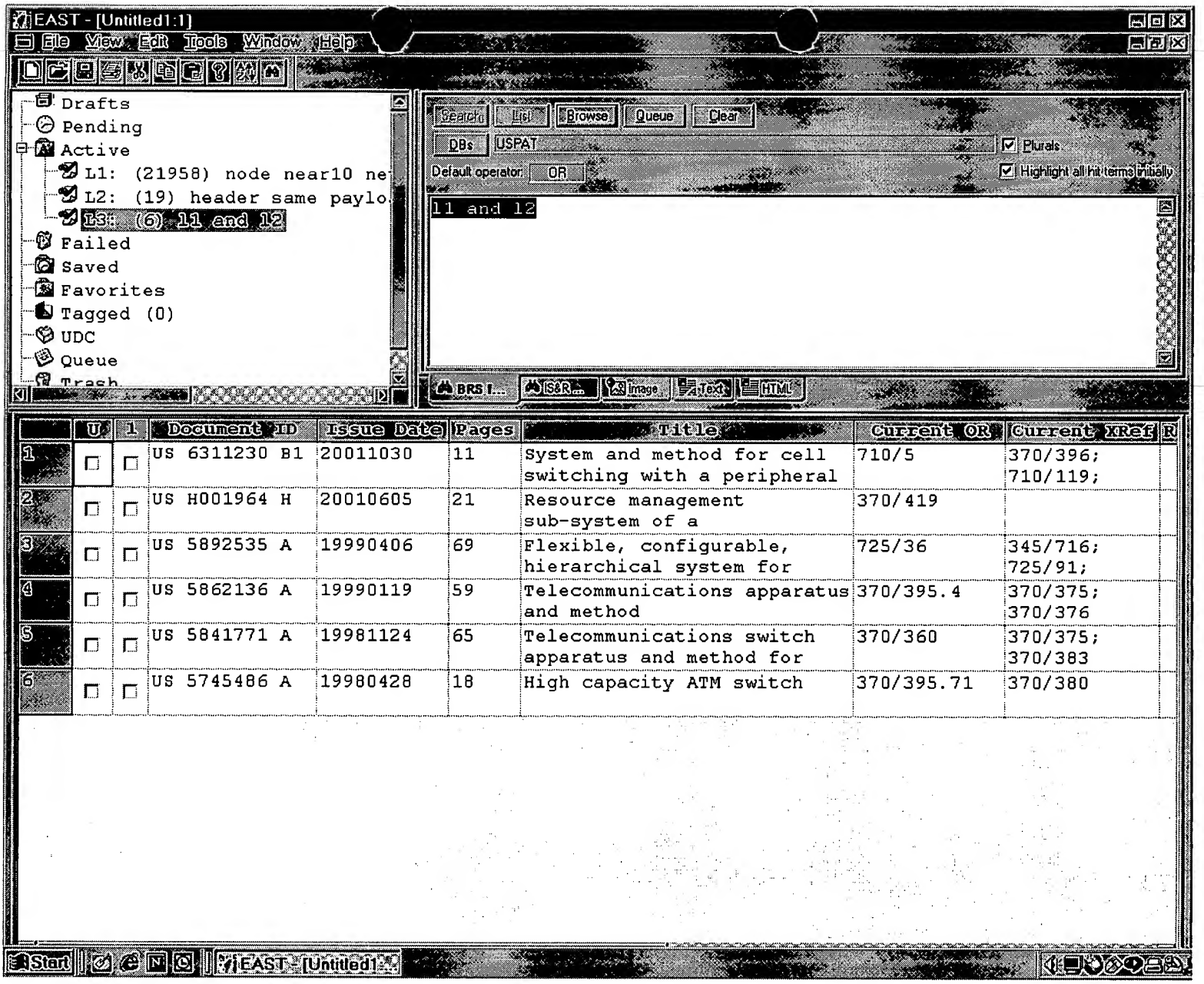
3	BRS	L3	6	l1 and l2	USPAT	2003/07/24 16:08			0



	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	R
1	☐	☐	US 6311230 B1	20011030	11	System and method for cell switching with a peripheral	710/5	370/396; 710/119;	
2	☐	☐	US H001964 H	20010605	21	Resource management sub-system of a	370/419		
3	☐	☐	US 5892535 A	19990406	69	Flexible, configurable, hierarchical system for	725/36	345/716; 725/91;	
4	☐	☐	US 5862136 A	19990119	59	Telecommunications apparatus and method	370/395.4	370/375; 370/376	
5	☐	☐	US 5841771 A	19981124	65	Telecommunications switch apparatus and method for	370/360	370/375; 370/383	
6	☐	☐	US 5745486 A	19980428	18	High capacity ATM switch	370/395.71	370/380	

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((node and network)and ((payload or data))) and(header) and (path or bus)

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Results:
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1 **Performance of backup source routing in mobile ad hoc networks**
Song Guo; Yang, O.W.;
Wireless Communications and Networking Conference, 2002. WCNC2002. 200
Volume: 1 , 17-21 March 2002
Page(s): 440 -444 vol.1

[Abstract] [PDF Full-Text (387 KB)] **IEEE CNF**

2 **A novel all-optical self-routed wavelength-addressable network (SW**
Buckman, L.A.; Wu, M.S.; Giaretta, G.; Li, G.S.; Pepeljugoski, P.K.; Goodman, Varma, A.; Lau, K.Y.; Chang-Hasnain, C.J.;
Photonics Technology Letters, IEEE , Volume: 7 Issue: 9 , Sept. 1995
Page(s): 1066 -1068

[Abstract] [PDF Full-Text (288 KB)] **IEEE JNL**

3 **A complete set of VLSI circuits for ATM switching**
Collivignarelli, M.; Daniele, A.; De Nicola, P.; Licciardi, L.; Turolla, M.; Zappalo
Global Telecommunications Conference, 1994. GLOBECOM '94. 'Communicatio
Global Bridge'., IEEE , 28 Nov.-2 Dec. 1994
Page(s): 134 -138 vol.1

[Abstract] [PDF Full-Text (816 KB)] **IEEE CNF**

4 **Simultaneous all-optical packet manipulation and wavelength shiftin reconfigurable WDM network**
Willner, A.E.; Norte, D.; Park, E.;
Lasers and Electro-Optics Society Annual Meeting, 1995. 8th Annual Meeting

Conference Proceedings, Volume 1., IEEE , Volume: 1 , 30-31 Oct. 1995
Page(s): 214 -215 vol.1

[Abstract] [PDF Full-Text (192 KB)] **IEEE CNF**

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5 **“Dead reckoning”-a primitive and efficient self-routing protocol for ultrafast mesh networks**
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Page(s): 135 -142

[Abstract] [PDF Full-Text (832 KB)] **IEE JNL**

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6 **Packet reassembly during cell loss**
Armitage, G.J.; Adams, K.M.;
Network, IEEE , Volume: 7 Issue: 5 , Sept. 1993
Page(s): 26 -34

[Abstract] [PDF Full-Text (1444 KB)] **IEEE JNL**

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7 **Design and implementation of ultra-low latency optical label switchir packet-switched WDM networks**
Meagher, B.; Chang, G.K.; Ellinas, G.; Lin, Y.M.; Xin, W.; Chen, T.F.; Yang, X.; Chowdhury, A.; Young, J.; Yoo, S.J.; Lee, C.; Iqbal, M.Z.; Robe, T.; Dai, H.; Cl Y.J.; Way, W.I.;
Lightwave Technology, Journal of , Volume: 18 Issue: 12 , Dec 2000
Page(s): 1978 -1987

[Abstract] [PDF Full-Text (292 KB)] **IEEE JNL**

A complete set of VLSI circuits for ATM switching

Collivignarelli, M. Daniele, A. De Nicola, P. Licciardi, L. Turolla, M. Zappalorto, A.
Italtel-Settimo Milanese;

This paper appears in: **Global Telecommunications Conference, 1994. GLOBECOM '94. 'Communications: The Global Bridge'., IEEE**
Meeting Date: 11/28/1994 -12/02/1994
Publication Date: 28 Nov- 2 Dec 1994
Location: San Francisco, CA , USA
On page(s): 134-138 vol.1
References Cited: 7
INSPEC Accession Number: 5079720

Abstract:
The broadband services offered via the ATM-based B-ISDN range from high-s data services to imaging services. A complete chip set for ATM switching syst is presented. The VLSI components allow one to implement the most significa functions in an ATM node. Three chips are located in the exchange terminatio the cell header processor that processes the ATM cells for label conversion, external to internal format translation and cell extraction and insertion, the policing unit that implements both the usage and the network parameter con functions, and the duplicated path recombining controller that duplicates and recombines respectively the input and output cell flow. The fourth component the core of the ATM switching fabric: the broadband ATM switching element t switches the ATM cells according to the routing information written in the cell internal header, this component is presented in two different realisations (a C low power 8×8, a BiCMOS 16×16). All the circuits are designed for an industr environment and are inserted in the Italtel UTXC cross connect. System debu testability and controllability inspired the whole chip set design. Flexibility of specifications allows one to fit other applications and future development. Hig performance in term of speed, low power dissipation, high integration density really stressed the technology of VLSI circuits

Index Terms:
ATM cells ATM node ATM switching fabric ATM switching systems B-ISDN BiCMC chip BiCMOS digital integrated circuits CMOS digital integrated circuits CMOS low pc chip Italtel UTXC cross connect VLSI VLSI circuits asynchronous transfer mode broadband ATM switching element cell extraction cell flow cell header processor ce insertion duplicated path recombining controller electronic switching systems exchan termination format translation network parameter control policing unit routing inform system debugging usage parameter control ATM cells ATM node ATM switching fal ATM switching systems B-ISDN BiCMOS chip BiCMOS digital integrated circuits CM digital integrated circuits CMOS low power chip Italtel UTXC cross connect VLSI VL circuits asynchronous transfer mode broadband ATM switching element cell extractic flow cell header processor cell insertion duplicated path recombining controller elect

switching systems exchange termination format translation network parameter contro policing unit routing information system debugging usage parameter control

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Design and implementation of ultra-low latency optical label switching for packet-switched WDM networks

Meagher, B. Chang, G.K. Ellinas, G. Lin, Y.M. Xin, W. Chen, T.F. Yang, X. Chowdhury, A. Young, J. Yoo, S.J. Lee, C. Iqbal, M.Z. Robe, T. Dai, H. Chen, Y. Way, W.I.
Telcordia Technol., Red Bank, NJ;
This paper appears in: **Lightwave Technology, Journal of**

Publication Date: Dec 2000
On page(s): 1978-1987
Volume: 18, Issue: 12
ISSN: 0733-8724
References Cited: 10
CODEN: JLTEDG
INSPEC Accession Number: 6888891

Abstract:
An ultra-low latency, high throughput Internet protocol (IP) over wavelength division multiplexing (WDM) packet switching technology for next-generation Internet (NGI) applications has been designed and demonstrated. This methc overcomes limitations of conventional optical packet switching, which require buffering of packets and synchronization of bits, and optical burst switching methods that require estimation of delays at each node and for each path. Ar optical label switching technique was developed to realize flexible bandwidth-on-demand packet transport on a reconfigurable WDM network. Tl aim was to design a network with simplified protocol stacks, scalability, and c transparency. This network will enable the NGI users to send their data applications at gigabit/second access speed with low and predictable latency μsec per switch node), with a system capacity of beyond multi-Tb/s. Pacl forwarding utilizes WDM optical headers that are carried in-band on the same wavelength and modulated out-of-band in the frequency domain

Index Terms:
Internet optical fibre subscriber loops packet switching protocols synchronisation telecommunication switching wavelength division multiplexing NGI users WDM optic headers WDM packet switching and width-on-demand packet transport data transpa frequency domain gigabit/second access speed high throughput Internet protocol modulated out-of-band next-generation Internet applications optical burst switching o packet switching packet-switched WDM networks reconfigurable WDM network synchronization ultra-low latency optical label switching wavelength division multiplexir

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